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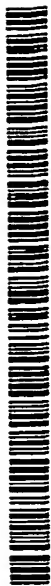


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(54) Title: METHODS OF VALIDATING TARGET FOR MODULATING INSULIN ACTION, SCREENING FOR MODULATORS OF INSULIN ACTION AND THERAPEUTIC USES THEREOF

(57) Abstract: The present invention provides several assay formats for determining the effect of compounds on one or more metabolism-associated phenotypes in a cell, tissue or animal. The assay formats are based upon the finding that Cbl (e.g., the protooncogene c-Cbl) is an upstream regulator of AMPK activity and ACC activity in muscle, and that this regulatory pathway modifies whole body energy expenditure and whole body insulin sensitivity.